

A. CLASSIFICATION OF SUBJECT MATTER					
IPC 7	C12Q1/68	G01N33/68	A61K38/00	A61K39/00	A61K48/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 00/53776 A (MOUNT SINAI HOSPITAL; YOUSEF, GEORGE, M; DIAMANDIS, ELEFTHERIOS, P) 14 September 2000 (2000-09-14) sequence 14</p> <p>page 21, line 32 - page 24, line 8 page 19, line 15 - page 20, line 25 page 24, line 10 - page 27, line 18 page 37, line 33 - page 40, line 29</p> <p>-----</p> <p>-/-</p>	1-26

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

14 April 2005

Date of mailing of the international search report

02/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Guarinos Viñals, E

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>YOUSSEF G M ET AL: "The human kallikrein protein 5 (hK5) is enzymatically active, glycosylated and forms complexes with two protease inhibitors in ovarian cancer fluids"</p> <p>BIOCHIMICA ET BIOPHYSICA ACTA . GENE STRUCTURE AND EXPRESSION, ELSEVIER, AMSTERDAM, NL, vol. 1628, no. 2, 28 July 2003 (2003-07-28), pages 88-96, XP004442532</p> <p>ISSN: 0167-4781</p> <p>the whole document</p> <p>-----</p>	1-11, 19-21, 23-26
X	<p>YOUSSEF GEORGE M ET AL: "Human kallikrein 5: A potential novel serum biomarker for breast and ovarian cancer." CANCER RESEARCH, vol. 63, no. 14, 15 July 2003 (2003-07-15), pages 3958-3965, XP002324387</p> <p>ISSN: 0008-5472</p> <p>the whole document</p> <p>-----</p>	18-23
X	<p>YOUSSEF GEORGE M ET AL: "Human kallikrein gene 5 (KLK5) expression by quantitative PCR: An independent indicator of poor prognosis in breast cancer" CLINICAL CHEMISTRY, vol. 48, no. 8, August 2002 (2002-08), pages 1241-1250, XP002324388</p> <p>ISSN: 0009-9147</p> <p>the whole document</p> <p>-----</p>	18-21
X	<p>YOUSSEF GEORGE M ET AL: "Differential expression of kallikrein gene 5 in cancerous and normal testicular tissues." UROLOGY, vol. 60, no. 4, October 2002 (2002-10), pages 714-718, XP002324389</p> <p>ISSN: 0090-4295</p> <p>the whole document</p> <p>-----</p>	18-21
X	<p>EKHOLM I E ET AL: "STRATUM CORNEUM TRYPTIC ENZYME IN NORMAL EPIDERMIS: A MISSING LINK IN THE DESQUAMATION PROCESS?" JOURNAL OF INVESTIGATIVE DERMATOLOGY, NEW YORK, NY, US, vol. 114, no. 1, January 2000 (2000-01), pages 56-63, XP001179147</p> <p>ISSN: 0022-202X</p> <p>the whole document</p> <p>-----</p>	19-23
		-/-

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>YOUSSEF G M ET AL: "Kallikrein gene downregulation in breast cancer." BRITISH JOURNAL OF CANCER, vol. 90, no. 1, 12 January 2004 (2004-01-12), pages 167-172, XP002324390 ISSN: 0007-0920 the whole document</p> <p>-----</p>	18-21
X	<p>BRATTSAND M ET AL: "PURIFICATION, MOLECULAR CLONING, AND EXPRESSION OF A HUMAN STRATUM CORNEUM TRYPSIN-LIKE SERINE PROTEASE WITH POSSIBLE FUNCTION IN DESQUAMATION" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 274, no. 42, 15 October 1999 (1999-10-15), pages 30033-30040, XP000862810 ISSN: 0021-9258 the whole document</p> <p>-----</p>	19-23

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2005/001130

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
see FURTHER INFORMATION sheet PCT/ISA/210
2.  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

**Continuation of Box II.1**

Although claims 1-4, 6-17, 24-26, as far as an "in vivo" method is concerned, are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Although claim 18, as far as an "in vivo" method is concerned, is directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0053776	A 14-09-2000	AU 3139800 A	28-09-2000
		AU 3139900 A	28-09-2000
		WO 0053776 A2	14-09-2000
		WO 0053747 A1	14-09-2000
		CA 2362885 A1	14-09-2000
		CA 2366087 A1	14-09-2000
		EP 1159431 A2	05-12-2001
		JP 2002538789 T	19-11-2002